

APPLICATION NO.

09/881,836

SUITE 1000

23850

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PAPER NUMBER

FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. Yongfa Kong 010737 8425 **EXAMINER** ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP STRICKLAND, JONAS N

1754

ART UNIT

DATE MAILED: 10/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

*50	•			// //
		Application No.	Applicant(s)	100
Office Action Summary		09/881,836	KONG ET AL.	C.
		Examiner	Art Unit	
		Jonas N. Strickland	1754	
Period 1	The MAILING DATE of this communication app or Reply	pears on the c ver sheet wit	h the correspondence addres	is
A SI THE - Ext afte - If th - If N - Fai	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. he period for reply specified above is less than thirty (30) days, a reply opened for reply is specified above, the maximum statutory period vilure to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MONTs, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this commu	ınication.
	ned patent term adjustment. See 37 CFR 1.704(b).			
1)[X	Responsive to communication(s) filed on 08 /	August 2003 .		
2a) <u></u>		nis action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposi	tion of Claims			
4)⊠) Claim(s) 1-6 is/are pending in the application.			
. —	4a) Of the above claim(s) <u>5</u> is/are withdrawn from consideration.			
· _	Claim(s) is/are allowed.			
	⊠ Claim(s) <u>1-4 and 6</u> is/are rejected.			
·	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o	or election requirement.		
	tion Papers			
	The specification is objected to by the Examine	<u></u>	- F	
10)	The drawing(s) filed on is/are: a) acce	•		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.				
12) The oath or declaration is objected to by the Examiner.				
	under 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. 8	. 119(a)-(d) or (f)	
-)⊠ All b)□ Some * c)□ None of:	ripriority aridor do d.d.d. 3	110(a) (a) 51 (1).	
<u>.</u>	1.⊠ Certified copies of the priority document	s have been received		
	2. Certified copies of the priority document		polication No.	
*	3. Copies of the certified copies of the prio application from the International Bu	rity documents have been i	received in this National Sta	ge
* See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).				
a) The translation of the foreign language provisional application has been received.				
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.				
Attachme	nt(s)		·	
2) Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u>	5) Notice of Ir	tummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-15	

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DETAILED ACTION

Election/Restrictions

1. Claim 15 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 5.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang et al. "Study of Resistance Against Photorefractive Light-Induced Scattering in LiNbO₃: Fe, Mg Crystals".

Zhang et al. discloses a LiNbO₃: Fe, Mg crystal, which may be utilized in optical processing, dynamic holography techniques (an optical storage material). Zhang et al. continues to disclose wherein M is Mg, Zn, or In. Zhang et al. continues to disclose wherein the Mg concentration is 4.6 mol%. Since, Zhang et al. teaches LiNbO₃, it would have been obvious to one of ordinary skill in the art to meet the stoichiometric values of the congruent composition as well as the mole percentage of Zn and In, because Zhang et al. clearly teaches wherein a LiNbO₃: Fe composition is doped with magnesium, indium or zinc as a three-dimensional optical storage material, and wherein the Mg mole ratio is at least 4.6 mol%.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 703-306-5692. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-0661.

Jonas N. Strickland October 15, 2003

> STANLEY S. SILVERMAN SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 1700

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